## We claim:

1. A filtration system comprising a plurality of modular filtration units, wherein each of said modular filtration units further comprises:

a housing;

a means for interlocking one of said modular filtration units to another modular filtration unit; and

a filtration element.

- 2. A filtration system as in claim 1 wherein said plurality of modular filtration units interlock together to form a single cell filtration system.
- 3. A filtration system as in claim 1 wherein said means for interlocking modular filtration units further comprises:

flanges on each of said modular filtration units;

a means for sealing a joint; and

a means for joining.

- 4. A filtration system as in claim 3 wherein said means for joining further comprises one or more bolts.
- 5. A filtration system as in claim 4 wherein said means for sealing is a gasket.
- 6. A filtration system as in claim 3 wherein said means for joining further comprises mating slidingslotted flanges.
- 7. A filtration system as in claim 6 wherein said means for sealing is caulking.
- 8. A filtration system as in claim 1 wherein said housing is constructed of fibreglass reinforced plastic.

- 9. A filtration system as in claim 3 wherein said housing is constructed of fibreglass reinforced plastic.
- 10. A filtration system as in claim 1 wherein said filtration element for at least one of said modular filtration units further comprises a biofilter.
- 11. A filtration system as in claim 1 wherein said filtration element for at least one of said modular filtration units further comprises a carbon dioxide stripper.
- 12. A filtration system as in claim 1 wherein said filtration element for at least one of said modular filtration units further comprises a foam fractionator.
- 13. A filtration system as in claim 1 wherein said filtration element for at least one of said modular filtration units further comprises a low head oxygenator.
- 14. A filtration system as in claim 1 wherein said filtration element for at least one of said modular filtration units further comprises a UV light sterilization filter.
- 15. A filtration system as in claim 1 wherein said filtration element for at least one of said modular filtration units further comprises a mechanical solids filter.
- 16. A filtration system as in claim 1 wherein said filtration element for at least one of said modular filtration units further comprises a fine solids polishing filter.
- 17. A filtration system as in claim 1 wherein at least one of said modular filtration units further comprises a second filtration element, wherein said first filtration element further comprises a carbon dioxide stripper and said second filtration element further comprises a foam fractionator.
- 18. A filtration system as in claim 1 wherein at least one of said modular filtration unit further comprises a second filtration element, wherein said first filtration element further comprises a UV light sterilization filter and said second filtration element further comprises a low head oxygenator.

- 19. A filtration system as in claim 10 wherein said biofilter further comprises a vertical central baffle wall, an air manifold, and biofiltration media.
- 20. A filtration system as in claim 19 wherein said biofilter further comprises and inlet, and wherein: said central baffle wall further comprises a 45 degree extension on the bottom of said baffle wall directed towards said inlet and a 45 degree extension on the top of said baffle wall directed away from said inlet;

said biofiltration media has a surface area no less than 350m2/m3; and said air manifold is located near said inlet.

- 21. A filtration system as in claim 20 wherein said biofiltration media is constructed of extruded polyethylene.
- 22. A filtration system as in claim 20 wherein said biofiltration media is constructed of extruded polystyrene.
- 23. A filtration system as in claim 20 wherein said biofilter further comprises an outlet and a retaining screen.
- 24. A filtration system comprising two or more modular filtration units, wherein each of said modular filtration units comprises a housing and a filtration element.
- 25. A filtration system as in claim 24 wherein said housing further comprises a means for interlocking said housing to the housing of another modular filtration unit.
- 26. A filtration system as in claim 25 wherein said modular filtration units interlock to form a single volume body.
- 27. A filtration system as in claim 26 wherein said means for interlocking modular filtration units further comprises:

flanges on each of said modular filtration units;

a sealant; and

a means for joining.

- 28. A filtration system as in claim 27 wherein said means for joining further comprises one or more bolts, wherein said sealant further comprises a gasket, and wherein said housing is constructed of fibreglass reinforced plastic.
- 29. A filtration system as in claim 27 wherein said filtration element for at least one of said modular filtration units further comprises a biofilter.
- 30. A filtration system as in claim 29 wherein said biofilter further comprises an inlet, an outlet, a vertical central baffle wall, an air manifold, a retaining screen, and biofiltration media.
- 31. A filtration system as in claim 30 wherein:

said central baffle wall further comprises a 45 degree extension on the bottom of said baffle wall directed towards said inlet and a 45 degree extension on the top of said baffle wall directed away from said inlet;

said air manifold is located adjacent to said inlet; said biofiltration media is constructed of extruded polymer; and said retaining screen covers said outlet.

- 32. A filtration system as in claim 31 wherein said biofiltration media has a surface area no less than 350m2/m3.
- 33. A filtration system comprising a biofilter, wherein said biofilter further comprises an inlet, an outlet, a vertical central baffle wall, an air manifold, a retaining screen, and biofiltration media.
- 34. A filtration system as in claim 33 wherein:

said central baffle wall further comprises a 45 degree extension on the bottom of said baffle wall directed towards said inlet and a 45 degree extension on the top of said baffle wall directed away from said inlet;

said biofiltration media has a surface area no less than 350m2/m3; said air manifold is located near said inlet; and said retaining screen covers said outlet.

- 35. A filtration system as in claim 34 wherein said biofiltration media is constructed of extruded polymer.
- 36. A filtration system as in claim 35 wherein said biofiltration media is constructed of extruded polystyrene.
- 37. A filtration system as in claim 35 wherein said biofiltration media is constructed of extruded polyethylene.
- 38. A filtration system as in claim 35 further comprising a plurality of modular filtration units, wherein each of said modular filtration units further comprises:
  - a housing;
  - a means for interlocking one of said modular filtration units to another modular filtration unit; and
  - a filtration element; and

wherein said filtration element for at least one of said modular filtration units is said biofilter.

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